

Title (en)

Gyratory crusher main shaft mounting assembly

Title (de)

Montageanordnung für die Hauptwelle eines Kreiselbrechers

Title (fr)

Ensemble de montage d'arbre principal de concasseur giratoire

Publication

**EP 2774682 A1 20140910 (EN)**

Application

**EP 13158322 A 20130308**

Priority

EP 13158322 A 20130308

Abstract (en)

A gyratory crusher eccentric support assembly to support the gyroscopic precession of a main shaft (107) extending through the crusher. The eccentric assembly comprises an inner bushing (126) retained in position by a surrounding sleeve (125) with the sleeve supported at its axially uppermost region by an annular support ring (122). A locking flange (209) prevents axial displacement of the bushing that is configured specifically to facilitate the removal and replacement of the bushing wear part.

IPC 8 full level

**B02C 2/04** (2006.01)

CPC (source: EP US)

**B02C 2/02** (2013.01 - US); **B02C 2/04** (2013.01 - EP US)

Citation (applicant)

- WO 2004110626 A1 20041223 - SANDVIK AB [SE], et al
- WO 2008140375 A1 20081120 - SANDVIK INTELLECTUAL PROPERTY [SE], et al
- WO 2010123431 A1 20101028 - SANDVIK INTELLECTUAL PROPERTY [SE], et al
- US 2009008489 A1 20090108 - NIEMINEN ILPO K [FI], et al
- GB 1570015 A 19800625 - BROWN LENOX & CO LTD
- US 6536693 B2 20030325 - VAN MULLEM ALBERT J [US], et al
- JP 2004136252 A 20040513 - KOBE STEEL LTD
- US 1791584 A 19310210 - SYMONS EDGAR B
- WO 2012005651 A1 20120112 - SANDVIK INTELLECTUAL PROPERTY [SE], et al

Citation (search report)

- [X] US 2003183706 A1 20031002 - CHENG MING YIH [TW]
- [YA] US 2010155512 A1 20100624 - PERSSON SEBASTIAN [SE], et al
- [YA] WO 2005075082 A1 20050818 - AUBEMA MASCHINENFABRIK GMBH [DE], et al
- [YA] WO 9922869 A1 19990514 - SVEDALA ARBRA AB [SE], et al
- [A] WO 0021673 A1 20000420 - ANI MINERAL PROCESSING INC [US]

Cited by

JP2016165692A; AU2015368587B2; WO2016104503A1; WO2023275432A1; EP3448571B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 2774682 A1 20140910; EP 2774682 B1 20151230**; AU 2014224954 A1 20150910; BR 112015021496 A2 20170718; CA 2900797 A1 20140912; CN 105121021 A 20151202; US 2016008817 A1 20160114; WO 2014135308 A2 20140912; WO 2014135308 A3 20150122

DOCDB simple family (application)

**EP 13158322 A 20130308**; AU 2014224954 A 20140127; BR 112015021496 A 20140127; CA 2900797 A 20140127; CN 201480012290 A 20140127; EP 2014051524 W 20140127; US 201414773184 A 20140127